# Safety Data Sheet

Safety data sheet according to 1907/2006/EC, Article 31

**Supersedes Date** 2022-12-01 **Revision Date:** 2023-03-24 **Revision Number:** 4

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

**1.1. Product identifier**

**Product name** AGITAN® 786N

**Material No.** 8121
**Historic Material No.** U1786N

**Pure substance/mixture** Mixture

**Relevant identified uses** Anti-foaming agent (defoamer)
**Uses advised against** Consumer use

**Manufacturer**
Munzing - Ultra Additives LLC.
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Bloomfield, NJ 07003
United States

Email: info@munzing.com
Phone: 1-973-279-1306

**Supplier**
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Münzingstrasse 2
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Germany

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**Emergency Telephone**

**Emergency telephone** CHEMTREC: +1 703 741 5970

## SECTION 2: Hazards identification

**2.1. Classification of the substance or mixture**

*Regulation (EC) No 1272/2008*

| | |
|---|---|
| **Chronic aquatic toxicity** | Category 3 - (H412) |

**2.2. Label elements**

**Hazard statements**
H412 - Harmful to aquatic life with long lasting effects

**Precautionary Statements - EU (§28, 1272/2008)**
P273 - Avoid release to the environment
P501 - Dispose of contents/ container to an approved waste disposal plant

**2.3. Other hazards**

This mixture contains substances considered to be persistent, bioaccumulating and toxic (PBT).

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

| Chemical name | CAS No | Weight-% | EC No (EU Index No) | REACH registration number | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|---|---|---|---|---|---|---|---|---|
| Octamethylcyclotetrasiloxane | 556-67-2 | <=0.05 | 209-136-7 | - | Flam. Liq. 3 (H226) Repr. 2 (H361f) Aquatic Chronic 1 (H410) | - | 10 | 10 |

**Full text of H- and EUH-phrases: see section 16**

*Acute Toxicity Estimate*
*If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components*

| Chemical name | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapor - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|---|---|---|---|---|---|
| Octamethylcyclotetrasiloxane 556-67-2 | 4800 | 2375 | No data available | No data available | No data available |

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation** Remove to fresh air.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin contact** Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

**Ingestion** Rinse mouth.

**4.2. Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**4.3. Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## SECTION 5: Firefighting measures

**5.1. Extinguishing media**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

**5.2. Special hazards arising from the substance or mixture**

**Specific hazards arising from the chemical** No information available.

**5.3. Advice for firefighters**

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation.

**For emergency responders** Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information.

**6.3. Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**6.4. Reference to other sections**

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**

| | |
|---|---|
| **Advice on safe handling** | Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. |
| **General hygiene considerations** | Handle in accordance with good industrial hygiene and safety practice. Take off contaminated clothing and wash before reuse. Do not get in eyes, on skin, or on clothing. |

**7.2. Conditions for safe storage, including any incompatibilities**

| | |
|---|---|
| **Storage Conditions** | Keep container tightly closed in a dry and well-ventilated place. |

**7.3. Specific end use(s)**

| | |
|---|---|
| **Risk Management Methods (RMM)** | The information required is contained in this Safety Data Sheet. |

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

| | |
|---|---|
| **Exposure Limits** | This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
| **Biological occupational exposure limits** | This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies. |
| **Derived No Effect Level (DNEL)** | No information available. |
| **Predicted No Effect Concentration (PNEC)** | No information available. |

**8.2. Exposure controls**

**Personal protective equipment**

| | |
|---|---|
| **Eye/face protection** | No special protective equipment required. |
| **Skin and body protection** | No special protective equipment required. |
| **Respiratory protection** | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |
| **General hygiene considerations** | Handle in accordance with good industrial hygiene and safety practice. |
| **Environmental exposure controls** | No information available. |

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | Liquid |
| **Appearance** | Opaque White |
| **Odor** | Not well known. |

| **Property** | **Values** | **Remarks • Method** |
|---|---|---|
| **Melting point** | No data available | technically not possible |

| | | |
|---|---|---|
| **Boiling point** | No data available | technically not possible |
| **Flammability (solid, gas)** | not ignitable | |
| **Flammability Limit in Air** | | |
| **Upper flammability limit** | Not applicable | |
| **Lower flammability limit** | Not applicable | |
| **Flash Point** | > 100 °C | (DIN EN ISO 2719) |
| **Autoignition temperature** | No data available | Not available for the mixture or its components |
| **Decomposition temperature** | Not applicable | |
| **pH** | Not applicable | non-aqueous, not soluble |
| **pH (as aqueous solution)** | No data available | |
| **Kinematic viscosity** | 386 - 1447 mm2/s | calculated 25°C non-newtonian thixotropic |
| **Dynamic viscosity** | 400 - 1500 cP | @ 25 °C ISO 2555 |
| **Water solubility** | Dispersible | |
| **Solubility in other solvents** | Dispersible in water | |
| **Partition coefficient: n-octanol/water** | Not applicable | Mixture |
| **Vapor Pressure** | No data available | technically not possible |
| **Relative density** | 1.036 | ASTM D 1475 |
| **Vapor density** | Not applicable | not measurable |
| **Particle characteristics** | | |
| **Particle Size** | Not applicable | |
| **Particle Size Distribution** | Not applicable | |

**9.2. Other information**

*9.2.1. Information with regard to physical hazard classes*
Not applicable

*9.2.2. Other safety characteristics*
No information available

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

**Reactivity** No information available.

**10.2. Chemical stability**

**Stability** Stable under normal conditions.

**Explosion Data**
**Sensitivity to mechanical impact** None.
**Sensitivity to static discharge** None.

**10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** None under normal processing.

**10.4. Conditions to avoid**

**Conditions to avoid** Heat, flames and sparks.

**10.5. Incompatible materials**

**Incompatible materials** Strong oxidizing agents.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** None known based on information supplied.

## SECTION 11: Toxicological information

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Information on likely routes of exposure**

**Product Information** Information given is based on data on the components and the toxicology of similar products.

**Eyes** Contact with eyes may cause irritation. Avoid contact with eyes.

**Skin** Substance may cause slight skin irritation. Avoid contact with skin.

**Inhalation** Health injuries are not known or expected under normal use.

**Ingestion** Health injuries are not known or expected under normal use.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Numerical measures of toxicity**

**The following values are calculated based on chapter 3.1 of the GHS document**

**ATEmix (oral)** 5,108.90 mg/kg

**ATEmix (dermal)** 18,957.90 mg/kg

**ATEmix (inhalation-dust/mist)** 101.60 mg/l

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Polyalkylene glycol, alkyl ether | = 5840 mg/kg ( Rat ) | = 13340 mg/kg ( Rabbit ) | - |
| Butoxypolyalkyleneglycol | = 5 g/kg ( Rat ) | = 14100 µL/kg ( Rabbit ) | > 5.01 mg/l (Rat) 4h<br>No deaths at this concentration |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

| Chemical name | European Union |
|---|---|
| Octamethylcyclotetrasiloxane | Repr. 2 |

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

**11.2. Information on other hazards**

**11.2.1. Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

**11.2.2. Other information**

**Other adverse effects** No information available.

## SECTION 12: Ecological information

**12.1. Toxicity**

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---|---|---|---|---|
| Polyalkylene glycol, alkyl ether | - | LC50: 20.6 mg/l (Pimphales promelas)<br>LC50 (96h): > 500 m/L (golden orfe)<br>LC50 (96h): 104 mg/L (Brachydanio rerio) | EC50 (16 h): 2800 mg/l<br>EC50 (16 h): 10000 mg/l | EC50: 450 mg/l (Daphnia magna)<br>EC50 (48 h): >100 mg/l (Daphnia magna)<br>LC50: 9.8 mg/l (Daphnia magna) |
| Butoxypolyalkyleneglycol | - | LC50(96h): > 100 mg/lL (Golden orfe) | - | - |

**12.2. Persistence and degradability**

**Persistence and degradability** No information available.

**12.3. Bioaccumulative potential**

**Bioaccumulation** There is no data for this product.

**Component Information**

| Chemical name | Partition coefficient |
|---|---|
| Octamethylcyclotetrasiloxane | 6.488 |

**12.4. Mobility in soil**

**Mobility in soil** No information available.

**12.5. Results of PBT and vPvB assessment**

**PBT and vPvB assessment**

| Chemical name | PBT and vPvB assessment |
|---|---|
| Octamethylcyclotetrasiloxane | PBT substance vPvB substance |

**12.6. Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

**12.7. Other adverse effects**
No information available.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## SECTION 14: Transport information

**RID** Not regulated

**IMDG** Not regulated

**IATA** Not regulated

## SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**International Inventories**

| | |
|---|---|
| **US TSCA Active** | Complies |
| **Australia (AIIC)** | Complies |
| **Canada (DSL)** | Complies |
| **China (IECSC)** | Complies |
| **Europe (EINECS/ELINCS/NLP)** | Complies |
| **Japan (ENCS)** | Complies |
| **South Korea (KECL)** | Complies |
| **New Zealand (NZIoC)** | Complies |
| **Philippines (PICCS)** | Not listed |
| **Taiwan (TSCI)** | Complies |

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**AIIC** - Australian Inventory of Industrial Chemicals (AIIC)
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
**IECSC** - China Inventory of Existing Chemical Substances
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
**ENCS** - Japan Existing and New Chemical Substances
**KECL** - Korean Existing and Evaluated Chemical Substances
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances
**NZIoC** - New Zealand Inventory of Chemicals
**TSCI** - Inventory - Taiwan - Taiwan Chemical Substance Inventory (TCSI)

**National regulations**

**France**
**Occupational Illnesses (R-463-3, France)**

**Germany** Water endangering class = 2 (self classification)

**Netherlands**

| Chemical name | Netherlands - List of Carcinogens | Netherlands - List of Mutagens | Netherlands - List of Reproductive Toxins |
|---|---|---|---|
| Octamethylcyclotetrasiloxane | - | - | Fertility Category 2 |

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorizations and/or restrictions on use:**

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

| Chemical name | Restricted substance per REACH Annex XVII | Substance subject to authorization per REACH Annex XIV |
|---|---|---|
| Octamethylcyclotetrasiloxane - 556-67-2 | 70.<br>75. | - |

**Persistent Organic Pollutants**

Not applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

**15.2. Chemical safety assessment**

**Chemical Safety Report** No information available

## SECTION 16: Other information

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Full text of H-Statements referred to under section 3**

H361f - Suspected of damaging fertility
H410 - Very toxic to aquatic life with long lasting effects

**Legend**

SVHC: Substances of Very High Concern for Authorization:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

| | | | |
|---|---|---|---|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | * | Skin designation |

| Classification procedure | |
|---|---|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used |
| Acute oral toxicity | Calculation method |
| Acute dermal toxicity | Calculation method |
| Acute inhalation toxicity - gas | Calculation method |
| Acute inhalation toxicity - vapor | Calculation method |
| Acute inhalation toxicity - dust/mist | Calculation method |
| Skin corrosion/irritation | Calculation method |
| Serious eye damage/eye irritation | Calculation method |
| Respiratory sensitization | Calculation method |
| Skin sensitization | Calculation method |
| Mutagenicity | Calculation method |
| Carcinogenicity | Calculation method |
| Reproductive toxicity | Calculation method |
| STOT - single exposure | Calculation method |
| STOT - repeated exposure | Calculation method |

| | |
|---|---|
| Acute aquatic toxicity | Calculation method |
| Chronic aquatic toxicity | Calculation method |
| Aspiration hazard | Calculation method |
| Ozone | Calculation method |

**Key literature references and sources for data used to compile the SDS**
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine’s PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

| | |
|---|---|
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**Disclaimer**
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**End of Safety Data Sheet**